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BRIMAR VALVES

R.M.A. REGISTRATION DATA

TYPE 25U4GT

DATE ISSUED 9. 7. 51.

25U4GT
DAMPER DIODE

The 25U4GT is a half wave rectifier especially designed for use as a damper diode in AC/DC television circuits. The electrical characteristics, except for the heater rating are similar to the 6U4GT.

MECHANICAL DATA.

Coated unipotential cathode
Outline drawing ..... 9-13 Bulb T-9
Base B.6.8
Maximum Diameter ..... 1.9/32"
Maximum Overall Length ..... 3.3/8"
Maximum Seated Height ..... 2.13/16"
Pin Connections ..... Basing Number 4GG

Pin 1 - No connection	Pin 5 - Anode
Pin 2 - No connection	Pin 6 - -
Pin 3 - Cathode	Pin 7 - Heater
Pin 4 - -	Pin 8 - Heater

Mounting Position..... any

ELECTRICAL DATA.

Direct Inter-electrode Capacitance.

Cap. heater-cathode ..... 8.5 µµf

RATINGS. (absolute maximum values)

Heater Voltage (ac or dc) ..... 25 volts

Maximum heater-cathode voltage.

(a) Mains Rectifier
Heater positive with respect to cathode ..... 385 volts
Heater negative with respect to cathode ..... 550 volts

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(b) Damper Diode

Heater positive with respect to cathode ..... 385 volts

* Heater negative with respect to cathode ..... 3850 volts

Maximum Peak Inverse Voltage

(a) Mains Rectifier ..... 1375 volts

* (b) Damper Diode ..... 3850 volts

Maximum A.C. plate voltage (RMS) ..... 375 volts
Maximum steady state peak plate current ..... 660 mA
Maximum transient peak plate current ..... 3.85 amps
(duration not exceeding 0.2 sec.)
Tube voltage drop (measured with tube conducting 250 mA) ..... 21 volts
Maximum D.C. output current ..... 138 mA
Minimum total effective plate supply impedance ..... 145 ohms

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS.

Heater voltage ..... 25 volts
Heater current ..... .3 amps
A.C. Plate voltage (RMS) ..... 350 volts
Filter Input capacitor ..... 20 µf
Total effective plate supply impedance ..... 145 ohms
D.C. output current ..... 125 mA
D.C. output potential ..... 335 volts

* This rating is applicable when the duty cycle of the voltage pulse does not exceed 15% of one scanning cycle and its duration is limited to 10 microseconds.